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Applicant: Yen-Chuang Serial No.: 10/731,261

Attorney Docket No.: 67,200-1144

## **IN THE CLAIMS**

Please amend Claim 9.

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## LISTING OF CLAIMS

1. (original) A method of polishing a material layer on a wafer, comprising the steps of:

determining a non-compensated thickness to be removed from the layer;

determining an offset thickness;

determining a current removal rate;

calculating a compensated removal rate using said non-compensated thickness,

said offset thickness and said current removal rate; and

polishing the layer according to said compensated removal rate.

2. (original) The method of claim 1 wherein said calculating a compensated removal

rate comprises the step of calculating said compensated removal rate according to the following

Formula: Compensated removal rate = (non-compensated thickness/non-compensated

thickness + offset thickness) \* current removal rate.

3. (original) The method of claim 1 wherein said determining an offset thickness

comprises the steps of determining a prescribed material layer thickness, determining a target

material layer thickness and determining a difference between said prescribed material layer

thickness and said target wafer thickness.

4. (original) The method of claim 3 The method of claim 1 wherein said calculating a

compensated removal rate comprises the step of calculating said compensated removal rate

according to the following formula: Compensated removal rate= (non-compensated

thickness/non-compensated thickness +offset thickness)\*current removal rate.

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5. (original) The method of claim 1 wherein said determining a current removal rate

comprises the step of providing a sample wafer, providing a sample layer on said sample wafer.

and polishing said sample layer.

6. (original). The method of claim 5 The method of claim 1 wherein sald calculating a

compensated removal rate comprises the step of calculating said compensated removal rate

Compensated removal rate= (non-compensated according to the following formula:

thickness/non-compensated thickness +offset thickness)\*current removal rate.

7. (original) The method of claim 5 wherein said determining an offset thickness

comprises the steps of determining a prescribed material layer thickness, determining a target

material layer thickness and determining a difference between said prescribed material layer

thickness and said target material layer thickness.

8. (original) The method of claim 7 The method of claim 1 wherein said calculating a

compensated removal rate comprises the step of calculating said compensated removal rate

Compensated removal rate= (non-compensated according to the following formula:

thickness/non-compensated thickness +offset thickness)\*current removal rate.

9. (currently amended) A method of polishing a material layer on a wafer, comprising

the steps of:

determining a non-compensated thickness to be removed from the layer

according to said a standard total wafer thickness;

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determining an offset thickness;

determining a current removal rate;

calculating a compensated removal rate using said non-compensated thickness,

said offset thickness and said current removal rate; and

polishing the layer according to said compensated removal rate.

10. (original) The method of claim 9 The method of claim 1 wherein said calculating a

compensated removal rate comprises the step of calculating said compensated removal rate

according to the following formula: Compensated removal rate= (non-compensated

thickness/non-compensated thickness +offset thickness)\*current removal rate.

11. (original) The method of claim 9 wherein said determining an offset thickness

comprises the steps of determining a prescribed material layer thickness, determining a target

material layer thickness and determining a difference between said prescribed material layer

thickness and said target material layer thickness.

12. (original) The method of claim 11 The method of claim 1 wherein said calculating a

compensated removal rate comprises the step of calculating said compensated removal rate

according to the following formula: Compensated removal rate= (non-compensated

thickness/non-compensated thickness +offset thickness)\*current removal rate.

13. (original) The method of claim 9 wherein said determining a current removal rate

comprises the step of providing a sample wafer, providing a sample layer on said sample wafer,

and polishing said sample layer.

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14. (original) The method of claim 13 The method of claim 1 wherein said calculating a compensated removal rate comprises the step of calculating said compensated removal rate

according to the following formula: Compensated removal rate= (non-compensated

thickness/non-compensated thickness +offset thickness)\*current removal rate.

15. (original) The method of claim 13 wherein said determining an offset thickness

comprises the steps of determining a prescribed material layer thickness, determining a target

material layer thickness and determining a difference between said prescribed material layer

thickness and said target material layer thickness.

16. (original) The method of claim 15 The method of claim 1 wherein said calculating a

compensated removal rate comprises the step of calculating said compensated removal rate

according to the following formula: Compensated removal rate= (non-compensated

thickness/non-compensated thickness +offset thickness)\*current removal rate.

17. (original) A method of programming a CMP apparatus to polish a material layer on a

wafer, comprising the steps of:

determining a non-compensated thickness to be removed from the layer;

determining an offset thickness;

determining a current removal rate;

calculating a compensated removal rate using said non-compensated thickness,

said offset thickness and said current removal rate;

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programming said compensated removal rate into the CMP apparatus; and

polishing the layer according to said compensated removal rate using the CMP

apparatus.

18. (original) The method of claim 17 The method of claim 1 wherein said calculating a

compensated removal rate comprises the step of calculating said compensated removal rate

Compensated removal rate= (non-compensated according to the following formula:

thickness/non-compensated thickness +offset thickness)\*current removal rate.

19. (original) The method of claim 17 wherein said determining an offset thickness

comprises the steps of determining a prescribed material layer thickness, determining a target

material layer thickness and determining a difference between said prescribed material layer

thickness and said target material layer thickness.

20. (original)The method of claim 17 wherein said determining a current removal rate

comprises the step of providing a sample wafer, providing a sample layer on said sample wafer,

and polishing said sample layer.